



Nombres:

MARIO IGNACIO

Apellidos:

MOLINA GÁLVEZ

Contacto (Opcional):

MMOLINA@UCHILE.CL

Título Profesional o Grado Académico (incluya el año de obtención):

**LICENCIATURA EN CIENCIAS C/M EN FÍSICA, UNIVERSIDAD DE CHILE
1984.**

Estudios de Postgrado o especialización (institución donde lo obtuvo y año de obtención):

**M. S. PHYSICS, UNIVERSITY OF UTAH, JUNE 1989. M. S. PHYSICS,
UNIVERSITY OF CHILE, CHILE, DECEMBER 1986.**

**PH.D., STATISTICAL AND CONDENSED MATTER PHYSICS, UNIVERSITY
OF UTAH, 1991.**

Actividad Actual e Institución en la cual trabaja:

**PROFESOR TITULAR DEL DEPARTAMENTO DE FÍSICA DE LA
FACULTAD DE CIENCIAS, UNIVERSIDAD DE CHILE. SOCIO ACTIVO DE
LA SOCIEDAD CHILENA DE FÍSICA.**

Reseña de su actividad laboral actual:

Área de Investigación: Óptica No Lineal

Línea de Investigación: Materia Condensada. Óptica No Lineal

PUBLICACIONES:

Naether, U., Martínez, A.J., Guzmán-Silva, D., Molina, M.I., Vicencio, R.A.
Self-trapping transition in nonlinear cubic lattices
(2013) Physical Review E - Statistical, Nonlinear, and Soft Matter Physics, 87 (6), art. no. 062914, .
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84879806160&partnerID=40&md5=3642c1badf995c8089e5cc9b4d237a7e>
DOCUMENT TYPE: Article
SOURCE: Scopus

Naether, U., Heinrich, M., Lahini, Y., Nolte, S., Vicencio, R.A., Molina, M.I., Szameit, A.
Self-trapping threshold in disordered nonlinear photonic lattices
(2013) Optics Letters, 38 (9), pp. 1518-1520. Cited 1 time.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84877145256&partnerID=40&md5=4773bcc01ada70b1353f76717feca2c7>
DOCUMENT TYPE: Article
SOURCE: Scopus

- , A.J., Stutzer, S., Tunnermann, A., Nolte, S.,
Molina, M.I., Vicencio, R.A., Szameit, A.
Enhanced distribution of a wave-packet in lattices with disorder and nonlinearity
(2013) Optics Express, 21 (1), pp. 927-934. Cited 1 time.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84872733725&partnerID=40&md5=8a8f2aa163de6eeff6ab1ee220de7393>
DOCUMENT TYPE: Article
SOURCE: Scopus

Naether, U., Stützer, S., Vicencio, R.A., Molina, M.I., Tünnermann, A., Nolte, S.,
Kottos, T., Christodoulides, D.N., Szameit, A.
Experimental observation of superdiffusive transport in random dimer lattices
(2013) New Journal of Physics, 15, art. no. 013045, .
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84873348642&partnerID=40&md5=34598d180ac8e7fc994a4f2f2e406c9c>
DOCUMENT TYPE: Article
SOURCE: Scopus

Naether, U., Zeuner, J.M., Stützer, S., Tünnermann, A., Nolte, S., Molina, M.I.,
Szameit, A.
Boundary-induced Anderson localization in a photonic lattice
(2012) 2012 Conference on Lasers and Electro-Optics, CLEO 2012, art. no. 6326375, .
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84870322599&partnerID=40&md5=3c0b30fc1862ddca105c91a2d1413e3e>
DOCUMENT TYPE: Conference Paper
SOURCE: Scopus

Molina, M.I.
Localized modes in nonlinear photonic kagome nanoribbons
(2012) Physics Letters, Section A: General, Atomic and Solid State Physics, 376 (45),
pp. 3458-3461. Cited 1 time.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84868134022&partnerID=40&md5=9b6480f53cf10c277c71db589738f6ec>
DOCUMENT TYPE: Article
SOURCE: Scopus

Mejía-Cortés, C., Soto-Crespo, J.M., Vicencio, R.A., Molina, M.I.
Bound states and interactions of vortex solitons in the discrete Ginzburg-Landau equation
(2012) Physical Review A - Atomic, Molecular, and Optical Physics, 86 (2), art. no. 023834, .
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84865215719&partnerID=40&md5=6f8d002521cd1a6db114173eb0925034>
DOCUMENT TYPE: Article
SOURCE: Scopus

Bennet, F.H., Molina, M.I.
Nonlinear light localization around the core of a holey fiber
(2012) Journal of the Optical Society of America B: Optical Physics, 29 (8), pp. 2161-2165.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84865740922&partnerID=40&md5=daff051edfa23c4c3186fb327af29a79>
DOCUMENT TYPE: Article
SOURCE: Scopus

Martínez, A.J., Molina, M.I.
Diffusion in infinite and semi-infinite lattices with long-range coupling
(2012) Journal of Physics A: Mathematical and Theoretical, 45 (27), art. no. 275204, .
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84863088818&partnerID=40&md5=e445d7a0bd0246a7c3645700fafecb1c>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I.
Localized modes, Fano resonances, and embedded states in magnetic metamaterials
(2012) Proceedings of SPIE - The International Society for Optical Engineering, 8423, art. no. 84230C, .
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84863549053&partnerID=40&md5=fe2cf83e09bf7f245112877de492430d>
DOCUMENT TYPE: Conference Paper
SOURCE: Scopus

Naether, U., Meyer, J.M., Stützer, S., Tünnermann, A., Nolte, S., Molina, M.I., Szameit, A.
Anderson localization in a periodic photonic lattice with a disordered boundary
(2012) Optics Letters, 37 (4), pp. 485-487. Cited 3 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84863415552&partnerID=40&md5=5226c7f5de10349726064ab4b1e9e03e>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I., Miroshnichenko, A.E., Kivshar, Y.S.
Surface bound states in the continuum
(2012) Physical Review Letters, 108 (7), art. no. 070401, . Cited 8 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84856879468&partnerID=40&md5=bd6e6b8429357e9b79268604daa5b634>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I., Lazarides, N., Tsironis, G.P.
Optical surface modes in the presence of nonlinearity and disorder

(2012) Physical Review E - Statistical, Nonlinear, and Soft Matter Physics, 85 (1), art. no. 017601, . Cited 3 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84856668722&partnerID=40&md5=7583dfd150a905f1f32aedbee7adbbc6)

84856668722&partnerID=40&md5=7583dfd150a905f1f32aedbee7adbbc6

DOCUMENT TYPE: Article

SOURCE: Scopus

Martínez, A.J., Molina, M.I.

Surface solitons in quasiperiodic nonlinear photonic lattices

(2012) Physical Review A - Atomic, Molecular, and Optical Physics, 85 (1), art. no.

013807, . Cited 1 time.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84855501682&partnerID=40&md5=ade29df885297a0e5f547c3713ebc877)

84855501682&partnerID=40&md5=ade29df885297a0e5f547c3713ebc877

DOCUMENT TYPE: Article

SOURCE: Scopus

Naether, U., Molina, M.I.

Fano resonances in magnetic metamaterials

(2011) Physical Review A - Atomic, Molecular, and Optical Physics, 84 (4), art. no.

043808, . Cited 1 time.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-80053498365&partnerID=40&md5=7643f3b93d563c9a6c3e8547fb7575cb)

80053498365&partnerID=40&md5=7643f3b93d563c9a6c3e8547fb7575cb

DOCUMENT TYPE: Article

SOURCE: Scopus

Rojas-Rojas, S., Vicencio, R.A., Molina, M.I., Abdullaev, F.K.

Nonlinear localized modes in dipolar Bose-Einstein condensates in optical lattices

(2011) Physical Review A - Atomic, Molecular, and Optical Physics, 84 (3), art. no.

033621, . Cited 6 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-80053091921&partnerID=40&md5=3c379e519c493eeaffdb370234c34525)

80053091921&partnerID=40&md5=3c379e519c493eeaffdb370234c34525

DOCUMENT TYPE: Article

SOURCE: Scopus

Molina, M.I.

Boundary-induced Anderson localization in photonic lattices

(2011) Physics Letters, Section A: General, Atomic and Solid State Physics, 375 (20),

pp. 2056-2058. Cited 3 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-79955661320&partnerID=40&md5=4e49bd7613de29d2be905b59342f8124)

79955661320&partnerID=40&md5=4e49bd7613de29d2be905b59342f8124

DOCUMENT TYPE: Article

SOURCE: Scopus

Mejía-Cortés, C., Soto-Crespo, J.M., Vicencio, R.A., Molina, M.I.

Vortex solitons of the discrete Ginzburg-Landau equation

(2011) Physical Review A - Atomic, Molecular, and Optical Physics, 83 (4), art. no.

043837, . Cited 2 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-79960627611&partnerID=40&md5=ce98d8d100101c0a63129056f5607ea7)

79960627611&partnerID=40&md5=ce98d8d100101c0a63129056f5607ea7

DOCUMENT TYPE: Article

SOURCE: Scopus

Mejía-Cortés, C., Soto-Crespo, J.M., Molina, M.I., Vicencio, R.A.

Dissipative vortex solitons in two-dimensional lattices

(2010) Physical Review A - Atomic, Molecular, and Optical Physics, 82 (6), art. no. 063818, . Cited 2 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-78650993432&partnerID=40&md5=8b8652c0918900f06c6830449aec625d)

[78650993432&partnerID=40&md5=8b8652c0918900f06c6830449aec625d](http://www.scopus.com/inward/record.url?eid=2-s2.0-78650993432&partnerID=40&md5=8b8652c0918900f06c6830449aec625d)

DOCUMENT TYPE: Article

SOURCE: Scopus

Martínez, A.J., Vicencio, R.A., Molina, M.I.

Strong asymmetry for surface modes in nonlinear lattices with long-range coupling

(2010) Physical Review A - Atomic, Molecular, and Optical Physics, 82 (5), art. no.

053820, . Cited 1 time.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-78649538496&partnerID=40&md5=342492b100cc290c3649135d2a887edd)

[78649538496&partnerID=40&md5=342492b100cc290c3649135d2a887edd](http://www.scopus.com/inward/record.url?eid=2-s2.0-78649538496&partnerID=40&md5=342492b100cc290c3649135d2a887edd)

DOCUMENT TYPE: Article

SOURCE: Scopus

Molina, M.I., Kivshar, Y.S.

Discrete and surface solitons in photonic graphene nanoribbons

(2010) Optics Letters, 35 (17), pp. 2895-2897. Cited 9 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-77956332447&partnerID=40&md5=7ba483a160ed2c352c13e5a520fb6a0e)

[77956332447&partnerID=40&md5=7ba483a160ed2c352c13e5a520fb6a0e](http://www.scopus.com/inward/record.url?eid=2-s2.0-77956332447&partnerID=40&md5=7ba483a160ed2c352c13e5a520fb6a0e)

DOCUMENT TYPE: Article

SOURCE: Scopus

Szameit, A., Molina, M.I., Heinrich, M., Dreisow, F., Keil, R., Nolte, S., Kivshar, Y.S.

Observation of localized modes at phase slips in two-dimensional photonic lattices

(2010) Optics Letters, 35 (16), pp. 2738-2740. Cited 8 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-77955869787&partnerID=40&md5=d8e17dbebb40a028fb708791d20db9d1)

[77955869787&partnerID=40&md5=d8e17dbebb40a028fb708791d20db9d1](http://www.scopus.com/inward/record.url?eid=2-s2.0-77955869787&partnerID=40&md5=d8e17dbebb40a028fb708791d20db9d1)

DOCUMENT TYPE: Article

SOURCE: Scopus

Lazarides, N., Molina, M.I., Tsironis, G.P., Kivshar, Y.S.

Multistability and localization in coupled nonlinear split-ring resonators

(2010) Physics Letters, Section A: General, Atomic and Solid State Physics, 374 (19-20), pp. 2095-2097. Cited 1 time.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-77949913597&partnerID=40&md5=c7f69bbb00b77a4ecc5b3566722fe846)

[77949913597&partnerID=40&md5=c7f69bbb00b77a4ecc5b3566722fe846](http://www.scopus.com/inward/record.url?eid=2-s2.0-77949913597&partnerID=40&md5=c7f69bbb00b77a4ecc5b3566722fe846)

DOCUMENT TYPE: Article

SOURCE: Scopus

Lazarides, N., Molina, M.I., Tsironis, G.P.

Breathers in one-dimensional binary metamaterial models

(2010) Physica B: Condensed Matter, 405 (14), pp. 3007-3011. Cited 1 time.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-77954309749&partnerID=40&md5=016798750f35aa299edc5e6f90883a82)

[77954309749&partnerID=40&md5=016798750f35aa299edc5e6f90883a82](http://www.scopus.com/inward/record.url?eid=2-s2.0-77954309749&partnerID=40&md5=016798750f35aa299edc5e6f90883a82)

DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

Molina, M.I., Kivshar, Y.S.

Nonlinear localized modes at phase slips in two-dimensional photonic lattices

(2009) Physical Review A - Atomic, Molecular, and Optical Physics, 80 (6), art. no.

063812, . Cited 5 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-71549157745&partnerID=40&md5=f9b6c5b28985ade4bfc983b633cfd1a9)

[71549157745&partnerID=40&md5=f9b6c5b28985ade4bfc983b633cfd1a9](http://www.scopus.com/inward/record.url?eid=2-s2.0-71549157745&partnerID=40&md5=f9b6c5b28985ade4bfc983b633cfd1a9)

DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I., Lazarides, N., Tsironis, G.P.
Bulk and surface magnetoinductive breathers in binary metamaterials
(2009) Physical Review E - Statistical, Nonlinear, and Soft Matter Physics, 80 (4), art. no. 046605, . Cited 7 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-70350593973&partnerID=40&md5=4acca1701521768ab0c7f9382769c37b>
DOCUMENT TYPE: Article
SOURCE: Scopus

Lazarides, N., Molina, M.I., Tsironis, G.P.
Breather induction by modulational instability in binary metamaterials
(2009) Acta Physica Polonica A, 116 (4), pp. 635-637. Cited 1 time.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-72449164861&partnerID=40&md5=dfb2450b9c6dcda0fcc3d859a89fc535>
DOCUMENT TYPE: Conference Paper
SOURCE: Scopus

Naether, U., Rivas, D.E., Larenas, M.A., Molina, M.I., Vicencio, R.A.
Fano resonances in waveguide arrays with saturable nonlinearity
(2009) Optics Letters, 34 (18), pp. 2721-2723. Cited 2 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-70349227302&partnerID=40&md5=bde21f84c94f34f71db35d1b2175f51d>
DOCUMENT TYPE: Article
SOURCE: Scopus

Xu, Z., Molina, M.I., Kivshar, Y.S.
Interface solitons in quadratic nonlinear photonic lattices
(2009) Physical Review A - Atomic, Molecular, and Optical Physics, 80 (1), art. no. 013817, . Cited 7 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-69449096990&partnerID=40&md5=9594f0971cb769f8e211e4d8ae39ee3c>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I., Kivshar, Y.S.
Two-color surface solitons in two-dimensional quadratic photonic lattices
(2009) Journal of the Optical Society of America B: Optical Physics, 26 (8), pp. 1545-1548. Cited 3 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-69049089169&partnerID=40&md5=c196dad74141c8429d9313747e480462>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I., Kivshar, Y.S.
Interface solitons in two-dimensional photonic lattices
(2008) Optics Letters, 33 (23), pp. 2761-2763. Cited 3 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-57649180882&partnerID=40&md5=f68cab340cc8d3ac0e328a24f2a0d748>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I.

Bulk and surface localized modes on a magnetic nonlinear impurity
(2008) Physics Letters, Section A: General, Atomic and Solid State Physics, 372 (46), pp. 6975-6980.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-55249085579&partnerID=40&md5=dd00a04c745febe061bd003cea938f28>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I.
Localized modes on an Ablowitz-Ladik nonlinear impurity
(2008) Physics Letters, Section A: General, Atomic and Solid State Physics, 372 (42), pp. 6388-6391.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-52149108463&partnerID=40&md5=8a6eb2877e87d703ce5066d3e616b157>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I., Kartashov, Y.V., Torner, L., Kivshar, Y.S.
Spatially localized modes in two-dimensional chirped photonic lattices
(2008) Physical Review A - Atomic, Molecular, and Optical Physics, 77 (5), art. no. 053813, . Cited 10 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-43849106037&partnerID=40&md5=d60ac3a573a2c6f3b14148eebc8551e9>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I., Kivshar, Y.S.
Nonlinear localized modes at phase-slip defects in waveguide arrays
(2008) Optics Letters, 33 (9), pp. 917-919. Cited 12 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-44949131536&partnerID=40&md5=63a78f8549c54e1e1383523cb66fd6ea>
DOCUMENT TYPE: Article
SOURCE: Scopus

Moya, P.S., Ramirez, M., Molina, M.I.
Bistable transmission of plane waves across two nonlinear delta functions
(2007) American Journal of Physics, 75 (12), pp. 1158-1161.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-37349025814&partnerID=40&md5=21d2758686336e352a8bc113dfe0adcd>
DOCUMENT TYPE: Article
SOURCE: Scopus

Kivshar, Y.S., Molina, M.I.
Nonlinear surface modes and Tamm states in periodic photonic structures
(2007) Wave Motion, 45 (1-2), pp. 59-67. Cited 4 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-35649019108&partnerID=40&md5=86dbeba75c91d406181399cc0b50bf94>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I., Kartashov, Y.V., Torner, L., Kivshar, Y.S.
Surface solitons in chirped photonic lattices
(2007) Optics Letters, 32 (18), pp. 2668-2670. Cited 30 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-39749113399&partnerID=40&md5=1e039f7c6913a506aa10e572a94a62f3>

DOCUMENT TYPE: Article

SOURCE: Scopus

Vicencio, R.A., Flach, S., Molina, M.I., Kivshar, Y.S.

Discrete surface solitons in two-dimensional anisotropic photonic lattices

(2007) Physics Letters, Section A: General, Atomic and Solid State Physics, 364 (3-4), pp. 274-276. Cited 27 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-33947182353&partnerID=40&md5=5229475a807a5128d7eb46c9a13d24ed)

[33947182353&partnerID=40&md5=5229475a807a5128d7eb46c9a13d24ed](http://www.scopus.com/inward/record.url?eid=2-s2.0-33947182353&partnerID=40&md5=5229475a807a5128d7eb46c9a13d24ed)

DOCUMENT TYPE: Article

SOURCE: Scopus

Miroshnichenko, A.E., Molina, M.I., Kivshar, Y.S.

Localized modes and bistable scattering in nonlinear network junctions

(2007) Physical Review E - Statistical, Nonlinear, and Soft Matter Physics, 75 (4), art. no. 046602, . Cited 14 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-34047229517&partnerID=40&md5=3f9571e191e7b4ec7e660330dc78a086)

[34047229517&partnerID=40&md5=3f9571e191e7b4ec7e660330dc78a086](http://www.scopus.com/inward/record.url?eid=2-s2.0-34047229517&partnerID=40&md5=3f9571e191e7b4ec7e660330dc78a086)

DOCUMENT TYPE: Article

SOURCE: Scopus

Molina, M.I., Kivshar, Yu.S.

Interface localized modes and hybrid lattice solitons in waveguide arrays

(2007) Physics Letters, Section A: General, Atomic and Solid State Physics, 362 (4), pp. 280-282. Cited 23 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-33846225105&partnerID=40&md5=f7f0f92e2859b67c27eba73b3d28a3dc)

[33846225105&partnerID=40&md5=f7f0f92e2859b67c27eba73b3d28a3dc](http://www.scopus.com/inward/record.url?eid=2-s2.0-33846225105&partnerID=40&md5=f7f0f92e2859b67c27eba73b3d28a3dc)

DOCUMENT TYPE: Article

SOURCE: Scopus

Rosberg, C.R., Neshev, D.N., Krolikowski, W., Mitchell, A., Vicencio, R.A., Molina, M.I., Kivshar, Y.S.

Surface gap solitons at fabricated photonic lattice interfaces

(2006) ACOFT/AOS 2006 - Australian Conference on Optical Fibre Technology/Australian Optical Society, art. no. 4519298, .

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-49049121112&partnerID=40&md5=54d60c026fb477e201c19b811a6a1330)

[49049121112&partnerID=40&md5=54d60c026fb477e201c19b811a6a1330](http://www.scopus.com/inward/record.url?eid=2-s2.0-49049121112&partnerID=40&md5=54d60c026fb477e201c19b811a6a1330)

DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

Rosberg, C.R., Neshev, D.N., Krolikowski, W., Mitchell, A., Vicencio, R.A., Molina, M.I., Kivshar, Y.S.

Observation of nonlinear optical Tamm states in truncated photonic lattices

(2006) Proceedings of the 2006 International Conference on Nanoscience and Nanotechnology, ICONN, art. no. 4143433, pp. 462-465.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-48749113419&partnerID=40&md5=d0769c0e364f2b9b4b514d512963b636)

[48749113419&partnerID=40&md5=d0769c0e364f2b9b4b514d512963b636](http://www.scopus.com/inward/record.url?eid=2-s2.0-48749113419&partnerID=40&md5=d0769c0e364f2b9b4b514d512963b636)

DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

Rosberg, C.R., Neshev, D.N., Kartashov, Y.V., Vicencio, R.A., Krolikowski, W., Molina, M.I., Mitchell, A., Vysloukh, V.A., Torner, L., Kivshar, Y.S.

Nonlinear tamm states in periodic photonic structures

(2006) Optics and Photonics News, 17 (12), p. 29. Cited 3 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-33847796585&partnerID=40&md5=4c8604dca7226c85a86e3488fe26a82b>
DOCUMENT TYPE: Article
SOURCE: Scopus

Rosberg, C.R., Neshev, D.N., Krolikowski, W., Kivshar, Y.S., Mitchell, A., Vicencio, R.A., Molina, M.I.
Observation of surface gap solitons
(2006) Conference on Lasers and Electro-Optics and 2006 Quantum Electronics and Laser Science Conference, CLEO/QELS 2006, art. no. 4627794, .
<http://www.scopus.com/inward/record.url?eid=2-s2.0-55649105524&partnerID=40&md5=3eb07dea02a60a2db9bb26d3fa6166f8>
DOCUMENT TYPE: Conference Paper
SOURCE: Scopus

Molina, M., Rössler, J., Vogel, E.
Note from the editorial board
(2006) Physica B: Condensed Matter, 384 (1-2), .
<http://www.scopus.com/inward/record.url?eid=2-s2.0-33748179765&partnerID=40&md5=b4918a78bf19d69cff40f061cebe961c>
DOCUMENT TYPE: Editorial
SOURCE: Scopus

Rosberg, C.R., Neshev, D.N., Krolikowski, W., Mitchell, A., Vicencio, R.A., Molina, M.I., Kivshar, Y.S.
Observation of surface gap solitons in semi-infinite waveguide arrays
(2006) Physical Review Letters, 97 (8), art. no. 083901, . Cited 144 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-33747810803&partnerID=40&md5=5e347e4f9ef09f7488083cda8c7337ca>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I., Garanovich, I.L., Sukhorukov, A.A., Kivshar, Y.S.
Discrete surface solitons in semi-infinite binary waveguide arrays
(2006) Optics Letters, 31 (15), pp. 2332-2334. Cited 44 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-33748699200&partnerID=40&md5=44aad24a711e314c57fd32e9078f4e8f>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I.
Nonlinear surface impurity in a semi-infinite two-dimensional square lattice: Green function approach
(2006) Physical Review B - Condensed Matter and Materials Physics, 74 (4), art. no. 045412, . Cited 9 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-33745827008&partnerID=40&md5=0c53e5a8a317286124b7c9055a50250d>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I., Vicencio, R.A., Kivshar, Y.S.
Discrete solitons and nonlinear surface modes in semi-infinite waveguide arrays
(2006) Optics Letters, 31 (11), pp. 1693-1695. Cited 103 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-33744550304&partnerID=40&md5=eb7272a4fbbe1491f840586287e2bf71>

DOCUMENT TYPE: Article
SOURCE: Scopus

Garanovich, I.L., Sukhorukov, A.A., Kivshar, Y.S., Molina, M.
Surface multi-gap vector solitons
(2006) Optics Express, 14 (11), pp. 4780-4785. Cited 34 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-33744506175&partnerID=40&md5=443edfebbddf8a26e3dd0c76ad34834e>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I.
Interaction of a discrete soliton with a surface mode
(2006) Physical Review B - Condensed Matter and Materials Physics, 73 (1), art. no. 014204, . Cited 9 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-33144484340&partnerID=40&md5=9de8361e6a448b8a8ad66ae1b530b2e4>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I., Vicencio, R.A., Kivshar, Y.S.
Impurity modes and wave scattering in discrete chains with nonlinear defect states
(2006) Physics Letters, Section A: General, Atomic and Solid State Physics, 350 (1-2), pp. 134-137. Cited 3 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-30644461780&partnerID=40&md5=bc92857f34fcd28e5a81856329025ff1>
DOCUMENT TYPE: Article
SOURCE: Scopus

Miroshnichenko, A.E., Kivshar, Y.S., Vicencio, R.A., Molina, M.I.
Resonant light reflection in quadratic waveguide arrays
(2005) Conference on Lasers and Electro-Optics Europe - Technical Digest, art. no. 1567991, .
<http://www.scopus.com/inward/record.url?eid=2-s2.0-42749099493&partnerID=40&md5=d14ef73792f66ba79e85a01d73123cd1>
DOCUMENT TYPE: Conference Paper
SOURCE: Scopus

Vicencio, R.A., Molina, M.I., Kivshar, Y.S.
Amplification of discrete vector solitons by means of polarization instability
(2005) Conference on Lasers and Electro-Optics Europe - Technical Digest, art. no. 1568037, .
<http://www.scopus.com/inward/record.url?eid=2-s2.0-42749098706&partnerID=40&md5=a57522438146bbd4d0dbdb19f1b98aa5>
DOCUMENT TYPE: Conference Paper
SOURCE: Scopus

Molina, M.I., Vicencio, R.A., Kivshar, Y.S.
Two-color discrete localized modes and resonant scattering in arrays of nonlinear quadratic optical waveguides
(2005) Physical Review E - Statistical, Nonlinear, and Soft Matter Physics, 72 (3), art. no. 036622, . Cited 6 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-28844499519&partnerID=40&md5=47dddefcabbcca12ff0ee6f4e5c1e1bd>
DOCUMENT TYPE: Article

SOURCE: Scopus

Vicencio, R.A., Molina, M.I., Kivshar, Y.S.
Polarization instability, steering, and switching of discrete vector solitons
(2005) *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*, 71 (5), art. no. 056613, . Cited 9 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-27144513383&partnerID=40&md5=a6742c6e268ca64fd164f82d2e3fe0b4>
DOCUMENT TYPE: Article
SOURCE: Scopus

Miroshnichenko, A.E., Kivshar, Y.S., Vicencio, R.A., Molina, M.I.
Fano resonance in quadratic waveguide arrays
(2005) *Optics Letters*, 30 (8), pp. 872-874. Cited 6 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-17644415346&partnerID=40&md5=ff00715f35644becea63e2d4b48c71d3>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I.
Nonlinear surface impurity in a semi-infinite lattice
(2005) *Physical Review B - Condensed Matter and Materials Physics*, 71 (3), art. no. 035404, . Cited 21 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-15444375404&partnerID=40&md5=daee65763b648bbd5fed77fd78ae29b4>
DOCUMENT TYPE: Article
SOURCE: Scopus

Vicencio, R.A., Molina, M.I., Kivshar, Y.S.
All-optical switching and amplification of discrete vector solitons in nonlinear cubic birefringent waveguide arrays
(2004) *Optics Letters*, 29 (24), pp. 2905-2907. Cited 19 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-10944254191&partnerID=40&md5=966e28f28a4fc06c073d2218ebc70395>
DOCUMENT TYPE: Article
SOURCE: Scopus

Vicencio, R.A., Molina, M.I., Kivshar, Y.S.
Controlled switching of discrete solitons in arrays of cubic and quadratic nonlinear optical waveguides
(2004) *Proceedings of SPIE - The International Society for Optical Engineering*, 5622 (PART 2), art. no. 154, pp. 811-815.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-17644424266&partnerID=40&md5=5d2e182954d20f1846456a9d43a14d1c>
DOCUMENT TYPE: Conference Paper
SOURCE: Scopus

Vicencio, R.A., Molina, M.I., Kivshar, Y.S.
Switching of discrete optical solitons in engineered waveguide arrays
(2004) *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*, 70 (2 2), art. no. 026602, pp. 026602-1-026602-8. Cited 18 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-42749100380&partnerID=40&md5=f8d2330ec7cab2a0ea0610a0826abba5>
DOCUMENT TYPE: Article
SOURCE: Scopus

Castro, F.M., Molina, M.I., Deering, W.D.
Controlling all-optical switching in multicore nonlinear couplers
(2003) Optics Communications, 226 (1-6), pp. 199-204. Cited 11 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0141998011&partnerID=40&md5=5e2adf1ebc20cefb3c85a3acd4d189e0>
DOCUMENT TYPE: Article
SOURCE: Scopus

Vicencio, R.A., Molina, M.I., Kivshar, Y.S.
Controlled switching of discrete solitons in waveguide arrays
(2003) Optics Letters, 28 (20), pp. 1942-1944. Cited 36 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0142093666&partnerID=40&md5=043289c3cf5fc38a77026599e421286b>
DOCUMENT TYPE: Article
SOURCE: Scopus

Bustamante, C.A., Molina, M.I.
Self-trapping in an asymmetric two-site Holstein model
(2003) International Journal of Modern Physics B, 17 (11), pp. 2281-2298.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0037561527&partnerID=40&md5=5c2fe8e252e29c1fb201d46e5881be6c>
DOCUMENT TYPE: Review
SOURCE: Scopus

Molina, M.I.
New DNLS equations for anharmonic vibrational impurities
(2003) Modern Physics Letters B, 17 (3), pp. 111-119. Cited 3 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0037428844&partnerID=40&md5=5124be37f33e328d17b6f6f5510c9dba>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I.
Nonlinear impurity in a lattice: Dispersion effects
(2003) Physical Review B - Condensed Matter and Materials Physics, 67 (5), art. no. 054202, pp. 542021-542025. Cited 12 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0037298844&partnerID=40&md5=a2d24e8df5174f96fc55fa40847a2233>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I.
Body motion in a resistive medium at temperature T
(2002) Revista Mexicana de Fisica, 48 (2), pp. 132-134. Cited 1 time.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0036014351&partnerID=40&md5=aebaeb4282977bcd2f3296601bd7d61a>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I., Bahlouli, H.
Conductance through a single nonlinear impurity
(2002) Physics Letters, Section A: General, Atomic and Solid State Physics, 294 (2), pp. 87-94. Cited 7 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-18244383312&partnerID=40&md5=4f3bfa503926c6f28c60125940c041af>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I., Bustamante, C.A.
The attractive nonlinear delta-function potential
(2002) American Journal of Physics, 70 (1), pp. 67-70. Cited 7 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-27744505418&partnerID=40&md5=c8d306111c2b892595fd9a30087f1d29>
DOCUMENT TYPE: Review
SOURCE: Scopus

Yáñez, J.M., Molina, M.I., Mattis, D.C.
From disordered crystal to glass - Exact theory
(2001) Physics Letters, Section A: General, Atomic and Solid State Physics, 288 (5-6), pp. 277-282. Cited 3 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0035476892&partnerID=40&md5=36ffe7487d9d9b7fe45cbdeb9c1bb2aa>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I.
Nonlinearity in materials science
(2001) International Journal of Modern Physics B, 15 (18), pp. 2409-2432. Cited 1 time.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0035920308&partnerID=40&md5=67967b4295e36adb0fdd58c1af4bc5e0>
DOCUMENT TYPE: Review
SOURCE: Scopus

Molina, M.I.
Body motion in a resistive medium: An exactly solvable model
(2001) Revista Mexicana de Fisica, 47 (2), pp. 201-204. Cited 1 time.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0035591233&partnerID=40&md5=ea063f88c5f237e9a1dc36b73facf3a>
DOCUMENT TYPE: Article
SOURCE: Scopus

Bustamante, C.A., Molina, M.I.
Universal features of self-trapping in nonlinear tight-binding lattices
(2000) Physical Review B - Condensed Matter and Materials Physics, 62 (23), pp. 15287-15290. Cited 14 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0034670667&partnerID=40&md5=b54a6b956c326588e76032339d1fd99c>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I.
Selftrapping dynamics in two-dimensional nonlinear lattices
(1999) Modern Physics Letters B, 13 (24), pp. 837-847. Cited 6 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0009495222&partnerID=40&md5=46afa8e39e98031d4c711196764b1d29>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I.

Nonlinear impurity in a square lattice

(1999) Physical Review B - Condensed Matter and Materials Physics, 60 (4), pp. 2276-2280. Cited 18 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-4243445641&partnerID=40&md5=ac36ce39a397001e0f04e81182156449)

[4243445641&partnerID=40&md5=ac36ce39a397001e0f04e81182156449](http://www.scopus.com/inward/record.url?eid=2-s2.0-4243445641&partnerID=40&md5=ac36ce39a397001e0f04e81182156449)

DOCUMENT TYPE: Article

SOURCE: Scopus

Molina, M.I.

Self-trapping on a generalized nonlinear tetrahedron

(1999) Modern Physics Letters B, 13 (8), pp. 225-232. Cited 6 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0037496236&partnerID=40&md5=0ef39d973258c71353b1b0e95d01ca7e)

[0037496236&partnerID=40&md5=0ef39d973258c71353b1b0e95d01ca7e](http://www.scopus.com/inward/record.url?eid=2-s2.0-0037496236&partnerID=40&md5=0ef39d973258c71353b1b0e95d01ca7e)

DOCUMENT TYPE: Article

SOURCE: Scopus

Ordonez, C.A., Bickel, D.R., Venezia, V.C., McDaniel, F.D., Malteson, S.E., Molina, M.I.

Electronic ion energy loss calculations on the basis of the binary encounter approximation

(1999) Journal of Nuclear Materials, 264 (1-2), pp. 133-140. Cited 1 time.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0032762481&partnerID=40&md5=709c35920d223e049f1c60f5e724a4f0)

[0032762481&partnerID=40&md5=709c35920d223e049f1c60f5e724a4f0](http://www.scopus.com/inward/record.url?eid=2-s2.0-0032762481&partnerID=40&md5=709c35920d223e049f1c60f5e724a4f0)

DOCUMENT TYPE: Article

SOURCE: Scopus

Molina, M.I.

Transport of localized and extended excitations in a nonlinear Anderson model

(1998) Physical Review B - Condensed Matter and Materials Physics, 58 (19), pp. 12547-12550. Cited 60 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0000122681&partnerID=40&md5=1879c28bdd38ee99b2f762a447deb1a8)

[0000122681&partnerID=40&md5=1879c28bdd38ee99b2f762a447deb1a8](http://www.scopus.com/inward/record.url?eid=2-s2.0-0000122681&partnerID=40&md5=1879c28bdd38ee99b2f762a447deb1a8)

DOCUMENT TYPE: Article

SOURCE: Scopus

Molina, M.I.

Body motion in a one-dimensional resistive medium

(1998) American Journal of Physics, 66 (11), pp. 973-974. Cited 4 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0032336948&partnerID=40&md5=5ab953593f7cdc774eacb5f15eadd85f)

[0032336948&partnerID=40&md5=5ab953593f7cdc774eacb5f15eadd85f](http://www.scopus.com/inward/record.url?eid=2-s2.0-0032336948&partnerID=40&md5=5ab953593f7cdc774eacb5f15eadd85f)

DOCUMENT TYPE: Article

SOURCE: Scopus

Molina, M., Rössler, J.

Dimensional crossover for the Bose-Einstein condensation

(1998) Revista Mexicana de Fisica, 44 (SUPPL.1), pp. 46-51. Cited 1 time.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0032334911&partnerID=40&md5=d69a8468a348b0d4c4de46b41f554630)

[0032334911&partnerID=40&md5=d69a8468a348b0d4c4de46b41f554630](http://www.scopus.com/inward/record.url?eid=2-s2.0-0032334911&partnerID=40&md5=d69a8468a348b0d4c4de46b41f554630)

DOCUMENT TYPE: Article

SOURCE: Scopus

Molina, M.I., Rössler, J.A., Tsironis, G.P.

Quantum vibrational impurity embedded in a one-dimensional chain

(1997) Physics Letters, Section A: General, Atomic and Solid State Physics, 234 (1), pp. 59-63. Cited 3 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-4243845853&partnerID=40&md5=b2b5101209367bb8b8373e2b74e557b4)

[4243845853&partnerID=40&md5=b2b5101209367bb8b8373e2b74e557b4](http://www.scopus.com/inward/record.url?eid=2-s2.0-4243845853&partnerID=40&md5=b2b5101209367bb8b8373e2b74e557b4)

DOCUMENT TYPE: Article

SOURCE: Scopus

Deering, W.D., Molina, M.I.

Power switching in hybrid coherent couplers

(1997) IEEE Journal of Quantum Electronics, 33 (3), pp. 336-340. Cited 14 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0031099402&partnerID=40&md5=1ab451fdc92dfc5cf9943ec22c986473)

[0031099402&partnerID=40&md5=1ab451fdc92dfc5cf9943ec22c986473](http://www.scopus.com/inward/record.url?eid=2-s2.0-0031099402&partnerID=40&md5=1ab451fdc92dfc5cf9943ec22c986473)

DOCUMENT TYPE: Article

SOURCE: Scopus

Chen, D., Molina, M.I., Tsironis, G.P.

Dynamics in chains randomly doped with nonadiabatic impurities

(1996) Journal of Physics Condensed Matter, 8 (37), pp. 6917-6922. Cited 6 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0012499298&partnerID=40&md5=9d6ab587a3b0c4a47330d75bee89dc0c)

[0012499298&partnerID=40&md5=9d6ab587a3b0c4a47330d75bee89dc0c](http://www.scopus.com/inward/record.url?eid=2-s2.0-0012499298&partnerID=40&md5=9d6ab587a3b0c4a47330d75bee89dc0c)

DOCUMENT TYPE: Article

SOURCE: Scopus

Molina, M.I.

Deal gas in a finite container

(1996) American Journal of Physics, 64 (4), pp. 503-505. Cited 21 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0030528036&partnerID=40&md5=8320557d25d42149d0e464392a3cebe5)

[0030528036&partnerID=40&md5=8320557d25d42149d0e464392a3cebe5](http://www.scopus.com/inward/record.url?eid=2-s2.0-0030528036&partnerID=40&md5=8320557d25d42149d0e464392a3cebe5)

DOCUMENT TYPE: Article

SOURCE: Scopus

Ordonez, C.A., Molina, M.I.

Ordonez and Molina reply

(1995) Physical Review Letters, 75 (17), p. 3196.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-35949005644&partnerID=40&md5=8799084bdc91b578c1d357ddae36f7ab)

[35949005644&partnerID=40&md5=8799084bdc91b578c1d357ddae36f7ab](http://www.scopus.com/inward/record.url?eid=2-s2.0-35949005644&partnerID=40&md5=8799084bdc91b578c1d357ddae36f7ab)

DOCUMENT TYPE: Article

SOURCE: Scopus

Ordonez, C.A., Molina, M.I.

Stopping power theory for screened Coulomb binary collisions in a nondegenerate plasma

(1994) Physical Review Letters, 72 (15), pp. 2407-2410. Cited 8 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0001373409&partnerID=40&md5=59e79367ab2b66d5f4d21ec96dd64df9)

[0001373409&partnerID=40&md5=59e79367ab2b66d5f4d21ec96dd64df9](http://www.scopus.com/inward/record.url?eid=2-s2.0-0001373409&partnerID=40&md5=59e79367ab2b66d5f4d21ec96dd64df9)

DOCUMENT TYPE: Article

SOURCE: Scopus

Tsironis, G.P., Molina, M.I., Hennig, D.

Generalized nonlinear impurity in a linear chain

(1994) Physical Review E, 50 (3), pp. 2365-2368. Cited 43 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-4243350101&partnerID=40&md5=41a7fe3e522c8d88eb8da2f4145bba76)

[4243350101&partnerID=40&md5=41a7fe3e522c8d88eb8da2f4145bba76](http://www.scopus.com/inward/record.url?eid=2-s2.0-4243350101&partnerID=40&md5=41a7fe3e522c8d88eb8da2f4145bba76)

DOCUMENT TYPE: Article

SOURCE: Scopus

Sun, N., Hennig, D., Molina, M.I., Tsironis, G.P.

Wave propagation in a non-linear quasiperiodic Kronig-Penney lattice

(1994) Journal of Physics: Condensed Matter, 6 (38), art. no. 012, pp. 7741-7749.

Cited 5 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0028496172&partnerID=40&md5=53aa080ce0cfe8aab85fc6ade33ee9b8)

[0028496172&partnerID=40&md5=53aa080ce0cfe8aab85fc6ade33ee9b8](http://www.scopus.com/inward/record.url?eid=2-s2.0-0028496172&partnerID=40&md5=53aa080ce0cfe8aab85fc6ade33ee9b8)

DOCUMENT TYPE: Article

SOURCE: Scopus

Molina, M.I., Tsironis, G.P.

Absence of localization in a nonlinear random binary alloy

(1994) Physical Review Letters, 73 (3), pp. 464-467. Cited 49 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-4243062209&partnerID=40&md5=542e7f3a2cc06a25b3518b2d7f90f4e4)

[4243062209&partnerID=40&md5=542e7f3a2cc06a25b3518b2d7f90f4e4](http://www.scopus.com/inward/record.url?eid=2-s2.0-4243062209&partnerID=40&md5=542e7f3a2cc06a25b3518b2d7f90f4e4)

DOCUMENT TYPE: Article

SOURCE: Scopus

Ordonez, C.A., Molina, M.I.

Evaluation of the Coulomb logarithm using cutoff and screened Coulomb interaction potentials

(1994) Physics of Plasmas, 1 (8), pp. 2515-2518. Cited 16 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0040684379&partnerID=40&md5=a1c2c03c5f0aab4e9d6fbe700bcc385c)

[0040684379&partnerID=40&md5=a1c2c03c5f0aab4e9d6fbe700bcc385c](http://www.scopus.com/inward/record.url?eid=2-s2.0-0040684379&partnerID=40&md5=a1c2c03c5f0aab4e9d6fbe700bcc385c)

DOCUMENT TYPE: Article

SOURCE: Scopus

Hennig, D., Gabriel, H., Tsironis, G.P., Molina, M.

Wave propagation in periodic nonlinear dielectric superlattices

(1994) Applied Physics Letters, 64 (22), pp. 2934-2936. Cited 16 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0028423867&partnerID=40&md5=00797808002b2bcd694a21c587c061ae)

[0028423867&partnerID=40&md5=00797808002b2bcd694a21c587c061ae](http://www.scopus.com/inward/record.url?eid=2-s2.0-0028423867&partnerID=40&md5=00797808002b2bcd694a21c587c061ae)

DOCUMENT TYPE: Article

SOURCE: Scopus

Hennig, D., Tsironis, G.P., Molina, M.I., Gabriel, H.

A nonlinear quasiperiodic Kronig-Penney model

(1994) Physics Letters A, 190 (3-4), pp. 259-263. Cited 3 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0041655911&partnerID=40&md5=c7b7f1c55400b0e9081f8f76f14313e2)

[0041655911&partnerID=40&md5=c7b7f1c55400b0e9081f8f76f14313e2](http://www.scopus.com/inward/record.url?eid=2-s2.0-0041655911&partnerID=40&md5=c7b7f1c55400b0e9081f8f76f14313e2)

DOCUMENT TYPE: Article

SOURCE: Scopus

Molina, M.I., Tsironis, G.P.

Nonlinear impurities in a linear chain

(1993) Physical Review B, 47 (22), pp. 15330-15333. Cited 49 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0000242381&partnerID=40&md5=fb98cf93125eb5f63011bf3f0cba6b97)

[0000242381&partnerID=40&md5=fb98cf93125eb5f63011bf3f0cba6b97](http://www.scopus.com/inward/record.url?eid=2-s2.0-0000242381&partnerID=40&md5=fb98cf93125eb5f63011bf3f0cba6b97)

DOCUMENT TYPE: Article

SOURCE: Scopus

Deering, W.D., Molina, M.I., Tsironis, G.P.

Directional couplers with linear and nonlinear elements

(1993) Applied Physics Letters, 62 (20), pp. 2471-2473. Cited 4 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-0009499902&partnerID=40&md5=b036e0f7c05fce811781b0965db1d17d>
DOCUMENT TYPE: Article
SOURCE: Scopus

Chen, D., Molina, M.I., Tsironis, G.P.
Non-adiabatic non-linear impurities in linear hosts
(1993) *Journal of Physics: Condensed Matter*, 5 (46), art. no. 008, pp. 8689-8702.
Cited 34 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-20444379938&partnerID=40&md5=f302337b95cdb614b7c141a96fc3fc82>
DOCUMENT TYPE: Article
SOURCE: Scopus

Tsironis, G.P., Deering, W.D., Molina, M.I.
Applications of self-trapping in optically coupled devices
(1993) *Physica D: Nonlinear Phenomena*, 68 (1), pp. 135-137. Cited 3 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0000189509&partnerID=40&md5=712309423b9cb9d93561512b1803e64a>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I., Deering, W.D., Tsironis, G.P.
Optical switching in three-coupler configurations
(1993) *Physica D: Nonlinear Phenomena*, 66 (1-2), pp. 135-142. Cited 14 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0009464121&partnerID=40&md5=0716d18a0c1b437e5456ec37963bb8f5>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I., Tsironis, G.P.
Dynamics of self-trapping in the discrete nonlinear Schrödinger equation
(1993) *Physica D: Nonlinear Phenomena*, 65 (3), pp. 267-273. Cited 47 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-43949170413&partnerID=40&md5=84a86ec11207d2d8255fb8f6527d6457>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I., Mattis, D.C.
Thermal conductivity and thermodynamics of phonons for an exactly soluble model of disorder
(1992) *Physical Review B*, 46 (13), pp. 8173-8177.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-35949006811&partnerID=40&md5=640f8085e6aa05a8da4b698d7e6bcc97>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I., Tsironis, G.P.
Tuning the Kenkre-Campbell self-trapping transition
(1992) *Physical Review A*, 46 (2), pp. 1124-1127. Cited 3 times.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0041655918&partnerID=40&md5=04e6a1fbdb822cb6d6f641d7e9a84d9>
DOCUMENT TYPE: Article
SOURCE: Scopus

Molina, M.I.

Sum rule in the many-phonon problem

(1991) Physics Letters A, 161 (2), pp. 145-146. Cited 2 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0000294267&partnerID=40&md5=7eeba593c7d91e07fc9b8056c4a4ee40)

[0000294267&partnerID=40&md5=7eeba593c7d91e07fc9b8056c4a4ee40](http://www.scopus.com/inward/record.url?eid=2-s2.0-0000294267&partnerID=40&md5=7eeba593c7d91e07fc9b8056c4a4ee40)

DOCUMENT TYPE: Article

SOURCE: Scopus

Mattis, D.C., Molina, M.

Ratio $20/kT_c$ in superconductivity

(1991) Physical Review B, 44 (22), pp. 12565-12566. Cited 14 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0000387848&partnerID=40&md5=62a680e72024436981ca4cc08fcd7f2b)

[0000387848&partnerID=40&md5=62a680e72024436981ca4cc08fcd7f2b](http://www.scopus.com/inward/record.url?eid=2-s2.0-0000387848&partnerID=40&md5=62a680e72024436981ca4cc08fcd7f2b)

DOCUMENT TYPE: Article

SOURCE: Scopus

Molina, M.I., Mattis, D.C.

Phonons in disordered anharmonic solids

(1991) Physics Letters A, 159 (6-7), pp. 337-342. Cited 4 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0000523625&partnerID=40&md5=92f543dc0583358dafb4daf74062c3f2)

[0000523625&partnerID=40&md5=92f543dc0583358dafb4daf74062c3f2](http://www.scopus.com/inward/record.url?eid=2-s2.0-0000523625&partnerID=40&md5=92f543dc0583358dafb4daf74062c3f2)

DOCUMENT TYPE: Article

SOURCE: Scopus

Cordero, P., Molina, M.

Optimal analytic second order real space renormalization

(1988) Physica A: Statistical Mechanics and its Applications, 151 (1), pp. 139-143.

Cited 1 time.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-16444362472&partnerID=40&md5=b3e1399bd8e07c758cb8e5abda604297)

[16444362472&partnerID=40&md5=b3e1399bd8e07c758cb8e5abda604297](http://www.scopus.com/inward/record.url?eid=2-s2.0-16444362472&partnerID=40&md5=b3e1399bd8e07c758cb8e5abda604297)

DOCUMENT TYPE: Article

SOURCE: Scopus

PROYECTOS DE INVESTIGACIÓN

Investigador Responsable. 1120123 Localization in discrete nonlinear optical media: case studies. 2012

Investigador Responsable. 1080374 Nonlinear localization in photonic nanostructures. 2008

Coinvestigador. 1070897 Dynamics of localized excitations in discrete nonlinear optical media. 2007

Investigador Responsable. 7060006 Creation and controlled steering of localized excitations in a discrete nonlinear optical medium. 2006

Investigador Responsable. 1050193 Creation and controlled steering of localized excitations in a discrete nonlinear optical medium. 2005

Investigador Responsable. 7050173 Creation and controlled steering of localized excitations in a discrete nonlinear optical medium. 2005

Investigador Responsable. 1020139 Power switching in nonlinear inhomogeneous directional couplers. 2002

Investigador Responsable. 7020139 Power switching in nonlinear inhomogeneous directional couplers. 2002

Actualización, mayo 2014